

Table CT8. Electric power sector consumption estimates, selected years, 1960-2023, Pennsylvania

Year	Coal Thousand short tons	Natural gas ^a Billion cubic feet	Petroleum				Nuclear electric power Million kilowatthours	Hydroelectric power ^d Million kilowatthours	Biomass Wood and waste ^{e,f} Million kilowatthours	Geothermal ^f Million kilowatthours	Solar ^g Million kilowatthours	Wind ^f Million kilowatthours	Electricity net imports ^h	Total ^{f,i}
			Distillate fuel oil ^b	Petroleum coke	Residual fuel oil ^c	Total								
			Thousand barrels											
1960	18,062	6	485	0	2,747	3,232	230	1,810	--	0	NA	NA	0	--
1965	23,182	1	591	0	3,351	3,943	313	1,313	--	0	NA	NA	0	--
1970	29,141	9	3,959	0	22,502	26,460	465	1,354	--	0	NA	NA	0	--
1975	36,659	1	3,419	0	10,273	13,691	15,869	1,575	--	0	NA	NA	0	--
1980	42,466	3	2,238	316	17,226	19,780	12,091	734	--	0	NA	NA	0	--
1985	41,713	2	1,423	782	11,622	13,827	26,232	971	--	0	0	0	0	--
1990	45,165	15	2,140	1,005	6,650	9,795	57,787	2,869	--	0	0	0	0	--
1995	46,895	39	1,398	1,310	4,836	7,545	66,462	2,030	--	0	0	0	16	--
2000	52,266	21	2,593	26	4,744	7,363	73,771	2,290	--	0	10	0	0	--
2005	54,464	81	1,273	534	7,058	8,865	76,289	2,232	--	0	284	0	-286	--
2006	55,936	101	651	179	949	1,779	75,298	2,844	--	0	361	0	-95	--
2007	55,712	144	838	0	1,516	2,353	77,376	2,236	--	0	470	0	62	--
2008	53,995	141	794	137	701	1,632	78,658	2,549	--	0	(s)	729	533	--
2009	48,853	211	592	140	776	1,508	77,328	2,683	--	0	4	1,075	170	--
2010	50,888	246	735	0	408	1,143	77,828	2,332	--	0	7	1,854	421	--
2011	47,403	306	671	0	230	902	76,147	3,217	--	0	18	1,794	435	--
2012	41,602	394	502	0	107	608	75,174	2,242	--	0	26	2,129	1,339	--
2013	41,992	362	571	0	97	668	78,714	2,525	--	0	55	3,352	1,109	--
2014	38,307	388	1,003	0	228	1,231	78,715	2,641	--	0	50	3,565	554	--
2015	31,391	438	1,043	0	0	1,043	80,517	2,604	--	0	52	3,353	536	--
2016	27,528	501	585	1	0	587	82,924	2,375	--	0	61	3,476	309	--
2017	24,384	527	519	0	0	519	83,200	3,123	--	0	56	3,591	32	--
2018	23,503	539	1,352	0	9	1,362	83,477	4,262	--	0	50	3,567	44	--
2019	19,480	673	378	0	7	385	83,230	3,503	--	0	70	3,250	0	--
2020	13,622	829	167	0	8	176	76,521	2,672	--	0	128	3,748	0	--
2021	16,270	852	241	0	3	244	75,903	3,135	--	0	212	3,455	0	--
2022	14,748	884	554	0	23	577	76,166	2,653	--	0	222	3,572	0	--
2023	9,847	950	120	0	6	126	75,305	2,783	--	0	347	3,258	0	--

Trillion Btu

1960	423.3	6.2	2.8	0.0	17.3	20.1	2.7	6.2	0.0	0.0	NA	NA	0.0	458.4
1965	558.6	1.3	3.4	0.0	21.1	24.5	3.7	4.5	0.0	0.0	NA	NA	0.0	592.5
1970	680.2	9.7	23.1	0.0	141.5	164.5	5.1	4.6	0.0	0.0	NA	NA	0.0	864.1
1975	861.4	1.2	19.9	0.0	64.6	84.5	174.8	5.4	0.0	0.0	NA	NA	0.0	1,127.3
1980	1,026.7	2.9	13.0	1.9	108.3	123.2	131.9	2.5	0.0	0.0	NA	NA	0.0	1,287.2
1985	1,019.7	1.6	8.3	4.7	73.1	86.1	278.6	3.3	0.0	0.0	0.0	0.0	0.0	1,389.3
1990	1,054.7	14.0	12.5	6.1	41.8	60.3	611.5	9.8	8.8	0.0	0.0	0.0	0.0	1,759.1
1995	1,062.4	40.6	8.1	7.9	30.4	46.4	698.3	6.9	27.7	0.0	0.0	0.0	0.1	1,882.4
2000	1,210.6	21.3	15.1	0.2	29.8	45.1	769.4	7.8	31.5	0.0	(s)	0.0	0.0	2,085.7
2005	1,224.9	83.5	7.4	3.1	44.4	54.8	796.2	7.6	25.0	0.0	0.0	1.0	-1.0	2,192.0
2006	1,243.1	104.4	3.8	1.0	6.0	10.8	785.7	9.7	25.5	0.0	0.0	1.2	-0.3	2,180.0
2007	1,241.6	148.3	4.8	0.0	9.5	14.4	811.6	7.6	26.4	0.0	0.0	1.6	0.2	2,251.7
2008	1,188.6	145.8	4.6	0.8	4.4	9.8	822.1	8.7	28.6	0.0	(s)	2.5	1.8	2,207.8
2009	1,071.1	216.6	3.4	0.8	4.9	9.1	808.8	9.2	28.5	0.0	(s)	3.7	0.6	2,147.5
2010	1,119.8	252.2	4.2	0.0	2.6	6.8	813.5	8.0	30.1	0.0	(s)	6.3	1.4	2,238.1
2011	1,028.4	315.0	3.9	0.0	1.4	5.3	796.8	11.0	28.7	0.0	0.1	6.1	1.5	2,192.8
2012	904.2	407.0	2.9	0.0	0.7	3.6	787.8	7.6	27.6	0.0	0.1	7.3	4.6	2,149.7
2013	905.8	378.1	3.3	0.0	0.6	3.9	822.5	8.6	27.5	0.0	0.2	11.4	3.8	2,161.8
2014	814.3	404.3	5.8	0.0	1.4	7.2	823.3	9.0	26.9	0.0	0.2	12.2	1.9	2,099.2
2015	669.2	456.2	6.0	0.0	0.0	6.0	842.0	8.9	27.2	0.0	0.2	11.4	1.8	2,023.1
2016	574.1	520.1	3.4	(s)	0.0	3.4	867.3	8.1	27.3	0.0	0.2	11.9	1.1	2,013.4
2017	501.8	544.9	3.0	0.0	0.0	3.0	870.2	10.7	27.5	0.0	0.2	12.3	0.1	1,970.5
2018	468.0	557.8	7.8	0.0	0.1	7.8	872.7	14.5	26.7	0.0	0.2	12.2	0.2	1,960.1
2019	398.1	696.8	2.2	0.0	(s)	2.2	869.1	12.0	24.0	0.0	0.2	11.1	0.0	2,013.5
2020	256.0	859.2	1.0	0.0	0.1	1.0	799.3	9.1	22.2	0.0	0.4	12.8	0.0	1,960.1
2021	320.4	882.1	1.4	0.0	(s)	1.4	791.6	10.7	19.9	0.0	0.7	11.8	0.0	2,038.7
2022	267.7	915.4	3.2	0.0	0.1	3.3	795.8	9.1	16.5	0.0	0.8	12.2	0.0	2,020.0
2023	152.1	983.2	0.7	0.0	(s)	0.7	787.1	9.5	16.5	0.0	1.2	11.1	0.0	1,957.8

^a Includes supplemental gaseous fuels that are commingled with natural gas.
^b Excludes biodiesel. Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.
^c Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
^d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.
^e Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
^f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
^g Solar thermal and photovoltaic energy.
^h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

ⁱ Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.
 -- = Not applicable. NA = Not available.
 Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.
 Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the technical notes for each type of energy.
 Web page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.
 Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. <https://www.eia.gov/state/seds/>